

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P476061

Luminaire Tested: **22GR-LD5-20-A-UNV-L850-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476061  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-20-A-UNV-L850-CD1-U  
Description: GR 2'X2' LED TROFFER w/ A LENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2023.3 lumens  
Efficiency: N/A  
Efficacy: 134.0 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

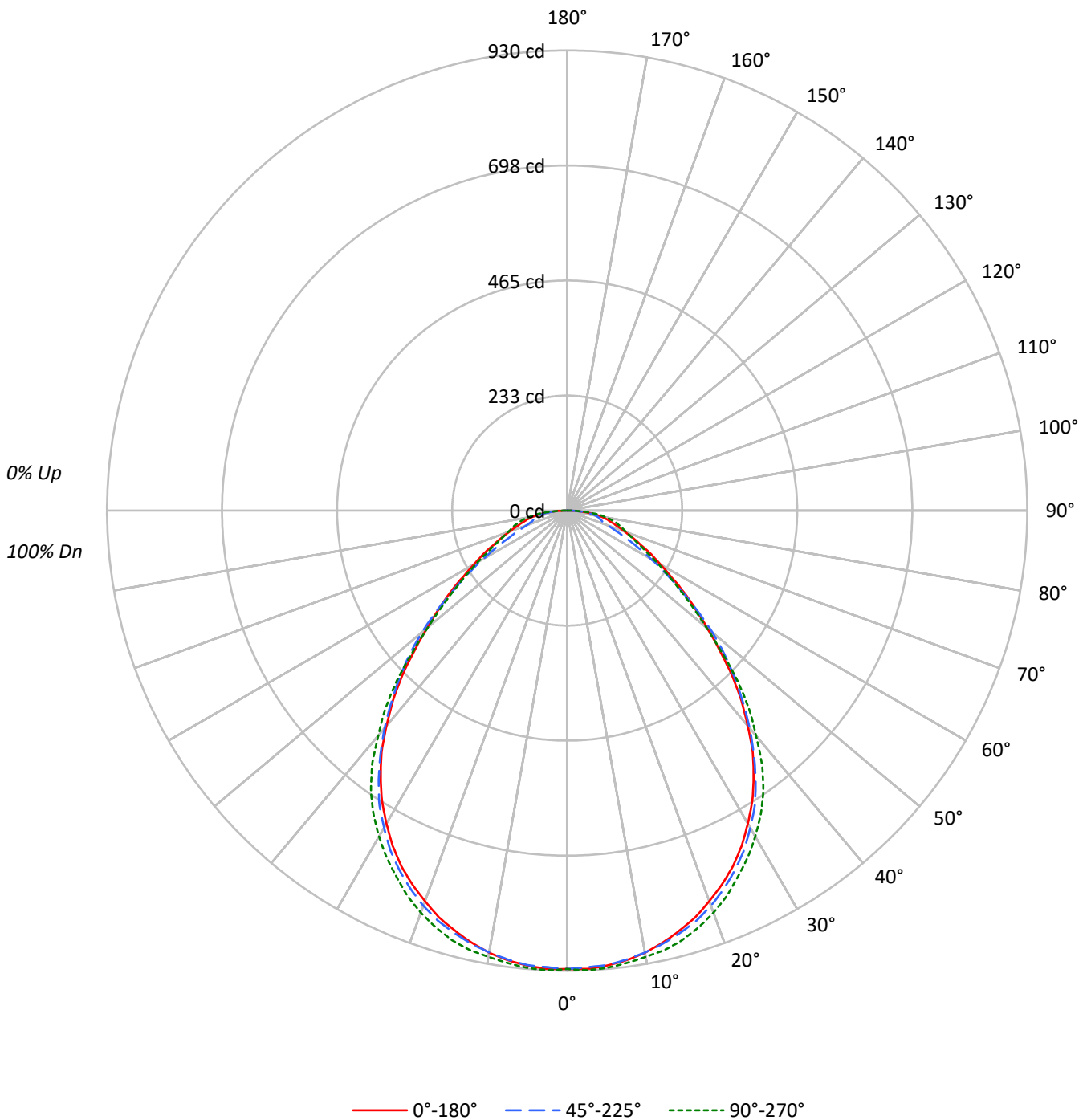
Input Watts (W): 15.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2493	2493	2493
5°	2494	2491	2506
10°	2479	2478	2502
15°	2448	2461	2504
20°	2405	2434	2477
25°	2354	2381	2424
30°	2269	2300	2363
35°	2158	2182	2271
40°	1995	2016	2087
45°	1792	1824	1853
50°	1549	1604	1533
55°	1352	1316	1299
60°	1171	1054	1125
65°	1046	827	1011
70°	970	685	997
75°	969	724	1106
80°	1074	911	1247
85°	1121	988	1411



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.7	4.3
10°-20°	249.7	12.3
20°-30°	369.4	18.3
30°-40°	416.8	20.6
40°-50°	367.4	18.2
50°-60°	252.1	12.5
60°-70°	148.7	7.4
70°-80°	92.8	4.6
80°-90°	38.7	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	706.8	34.9
0°-40°	1123.6	55.5
0°-60°	1743.1	86.1
0°-90°	2023.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2023.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	927	927	927	927	927	
5°	923	922	922	925	928	88
15°	879	880	883	894	899	248
25°	793	796	802	812	816	364
35°	657	662	664	680	691	409
45°	471	473	479	482	487	362
55°	288	281	281	271	277	258
65°	164	144	130	150	159	166
75°	93	84	70	97	106	100
85°	36	34	32	42	46	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	926.6	926.6	926.6	926.6	926.6
2.5°	927.1	924.7	923.8	927.6	929.9
5°	923.3	921.5	922.0	925.2	927.6
7.5°	916.7	915.4	915.4	920.0	922.3
10°	907.3	906.9	906.9	912.5	915.7
12.5°	894.2	894.5	896.4	904.0	909.6
15°	878.6	879.5	883.3	894.2	898.8
17.5°	861.7	861.7	869.1	877.6	883.3
20°	840.0	841.3	849.8	859.3	864.9
22.5°	817.8	820.2	827.3	838.1	843.2
25°	792.9	795.7	801.9	812.2	816.4
27.5°	763.7	767.5	774.1	781.5	790.5
30°	730.2	735.9	740.2	750.5	760.4
32.5°	696.3	701.6	706.3	717.1	728.3
35°	656.8	662.4	664.3	680.4	691.2
37.5°	616.3	618.7	619.6	635.7	647.4
40°	567.9	572.5	574.0	586.7	594.2
42.5°	521.2	523.1	525.9	535.4	544.3
45°	470.8	473.2	479.3	482.2	486.9
47.5°	418.1	425.2	432.2	423.2	423.7
50°	370.0	375.8	383.2	366.3	366.3
52.5°	327.2	330.0	330.5	316.5	319.2
55°	288.2	281.1	280.6	271.2	276.8
57.5°	249.1	239.7	236.3	233.5	240.1
60°	217.5	200.6	195.9	200.1	209.1
62.5°	191.6	169.9	161.0	171.8	179.9
65°	164.3	144.5	129.9	150.3	158.7
67.5°	143.2	124.3	105.5	134.2	140.3
70°	123.3	108.8	87.1	122.0	126.7
72.5°	107.4	96.1	75.4	110.1	115.9
75°	93.2	83.8	69.6	97.4	106.4
77.5°	82.0	71.5	65.0	84.2	95.1
80°	69.3	58.8	58.8	70.6	80.5
82.5°	54.6	46.1	47.6	57.4	64.5
85°	36.3	33.9	32.0	41.9	45.7
87.5°	18.3	18.8	16.9	21.7	22.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)